ROAD CONSTRUCTION PLANS FOR PROJECT 3 OF

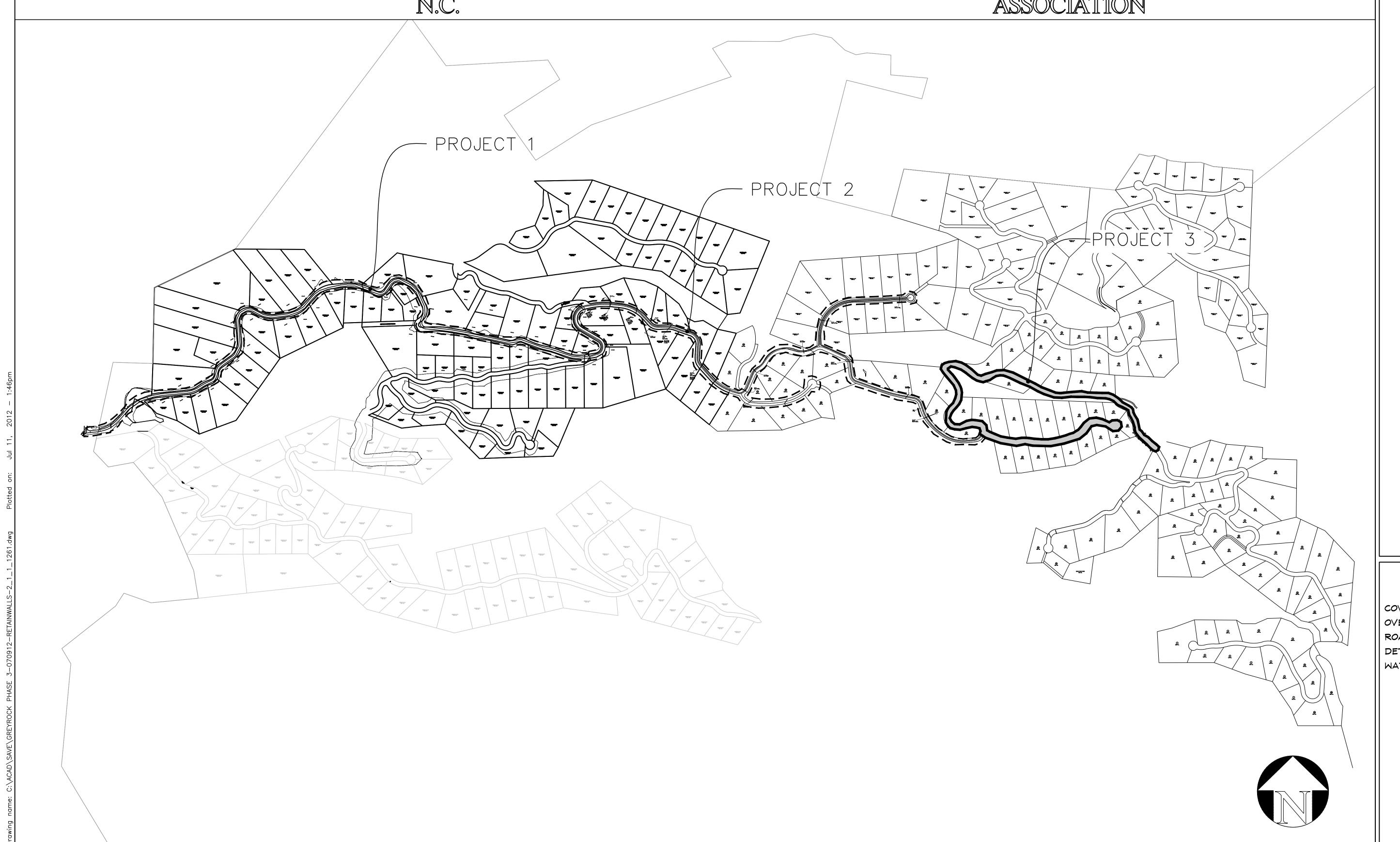
GREYROCK SUBDIVISON

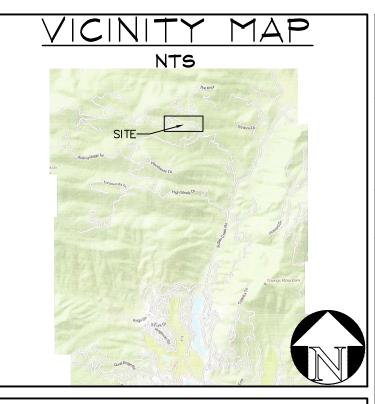
LAKE LURE

RUTHERFORD COUNTY, N.C.

PROJECT OWNER:
RUTHERFORD COUNTY,
N.C.

PROPERTY OWNER:
GREYROCK HOMEOWNERS
ASSOCIATION





GENERAL NOTES:

I HEREBY CERTIFY THAT THE PLAN AND SPECIFICATION WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AS A DULY REGISTERED ARCHITECT OR ENGINEER UNDER THE LAWS OF THE STATE OF NORTH CAROLIN AS SIGNIFIED BY MY HAND AND SEAL.

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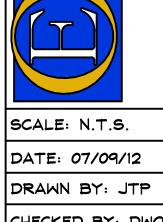
CONSTRUCTION PLANS FOR PHASE 2 OF TROCK SUBDIVISION E LURE

COVER

SHEET INDEX

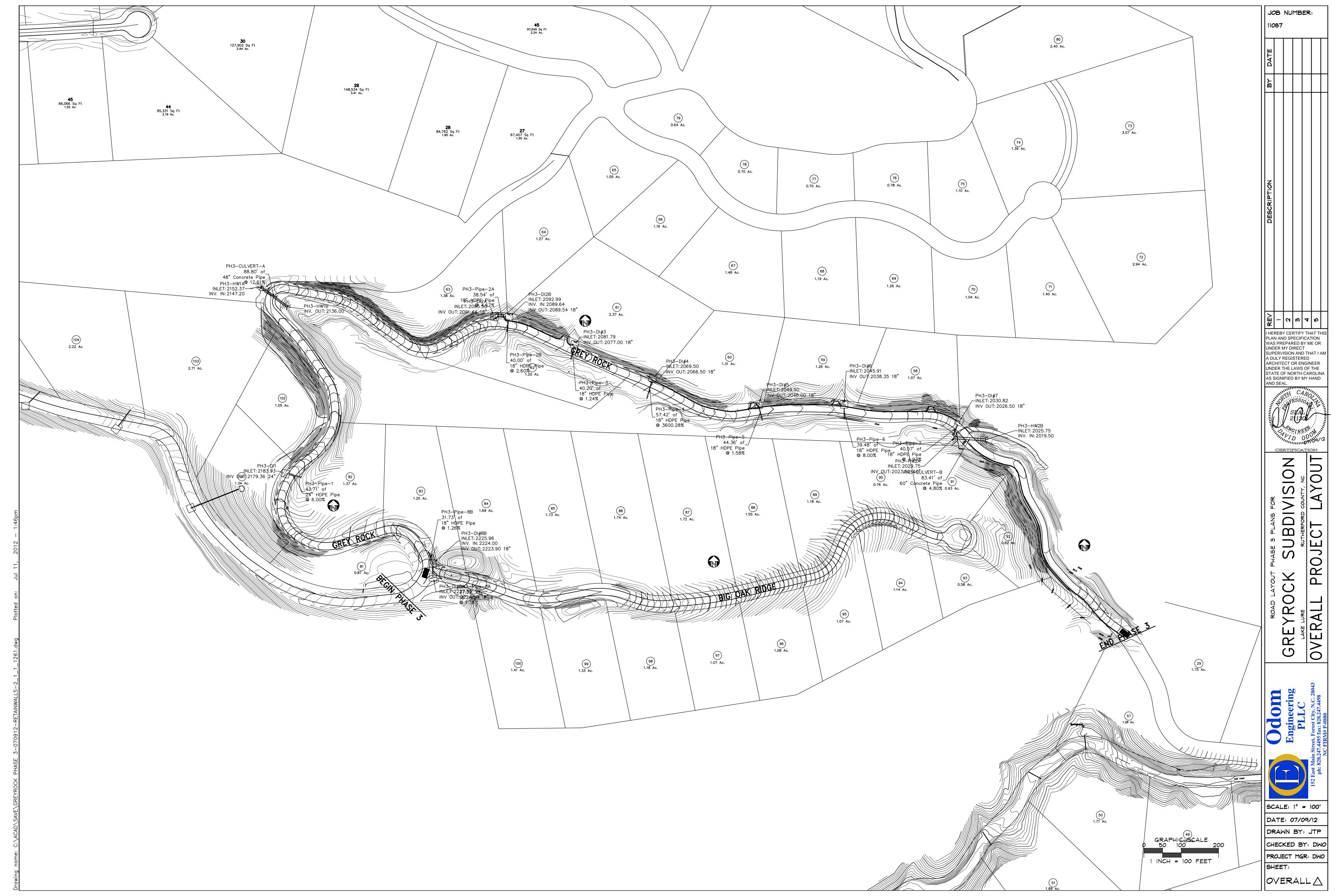
TITLE
COVER
OVERALL
ROAD PLAN AND PROFILE 1-4
DETAILS 5-6
WATERMARK DRAWINGS (2 SHEETS)

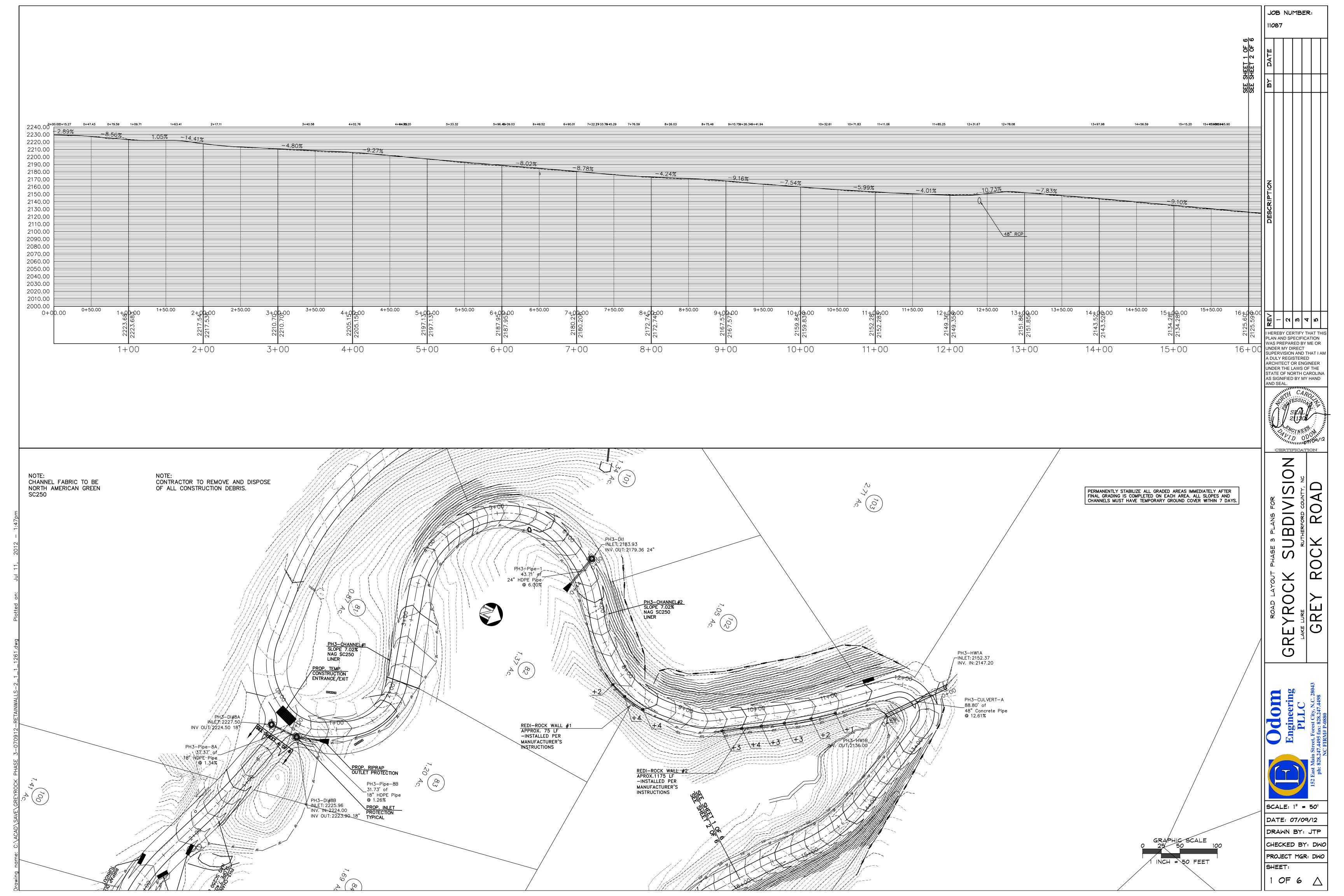


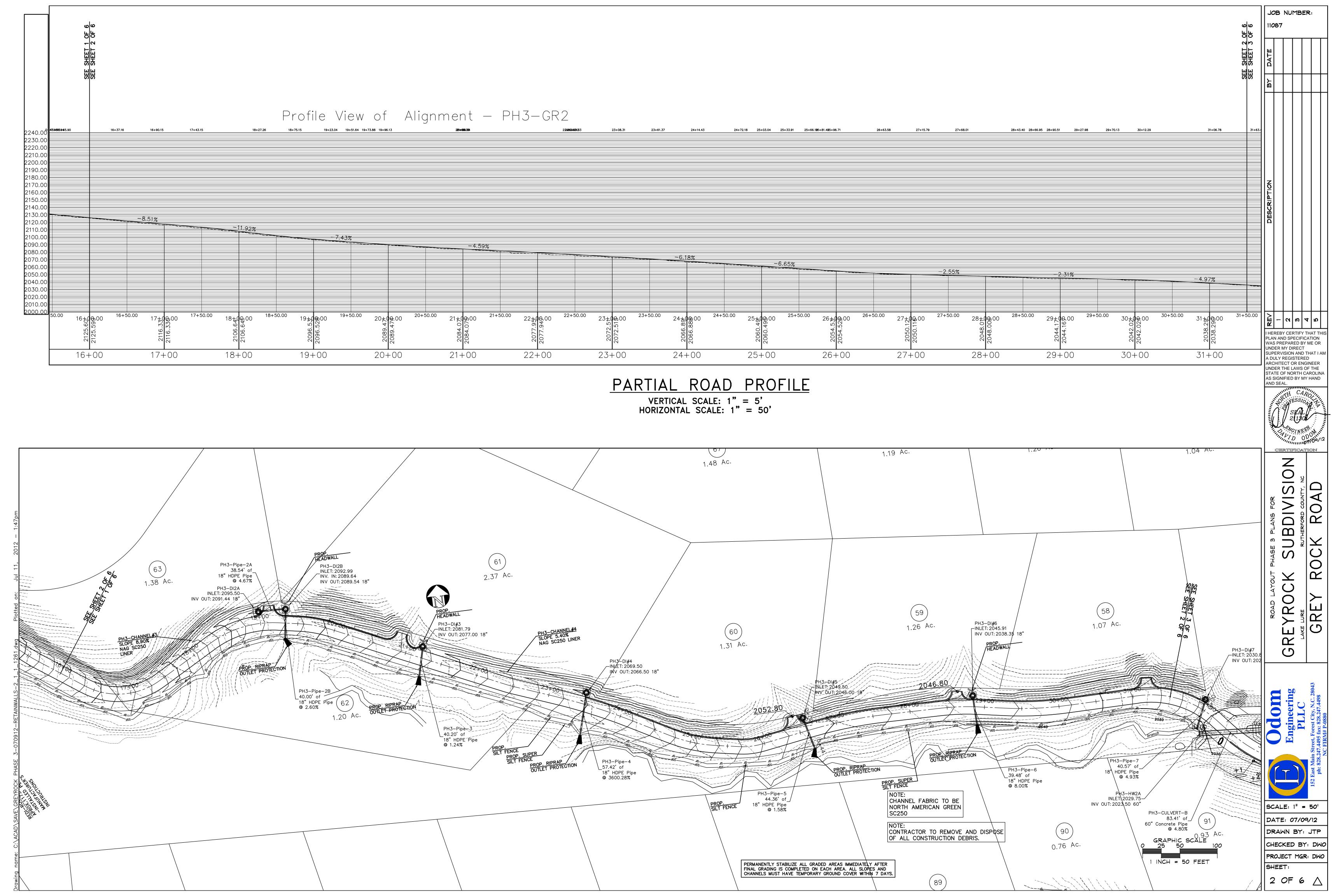


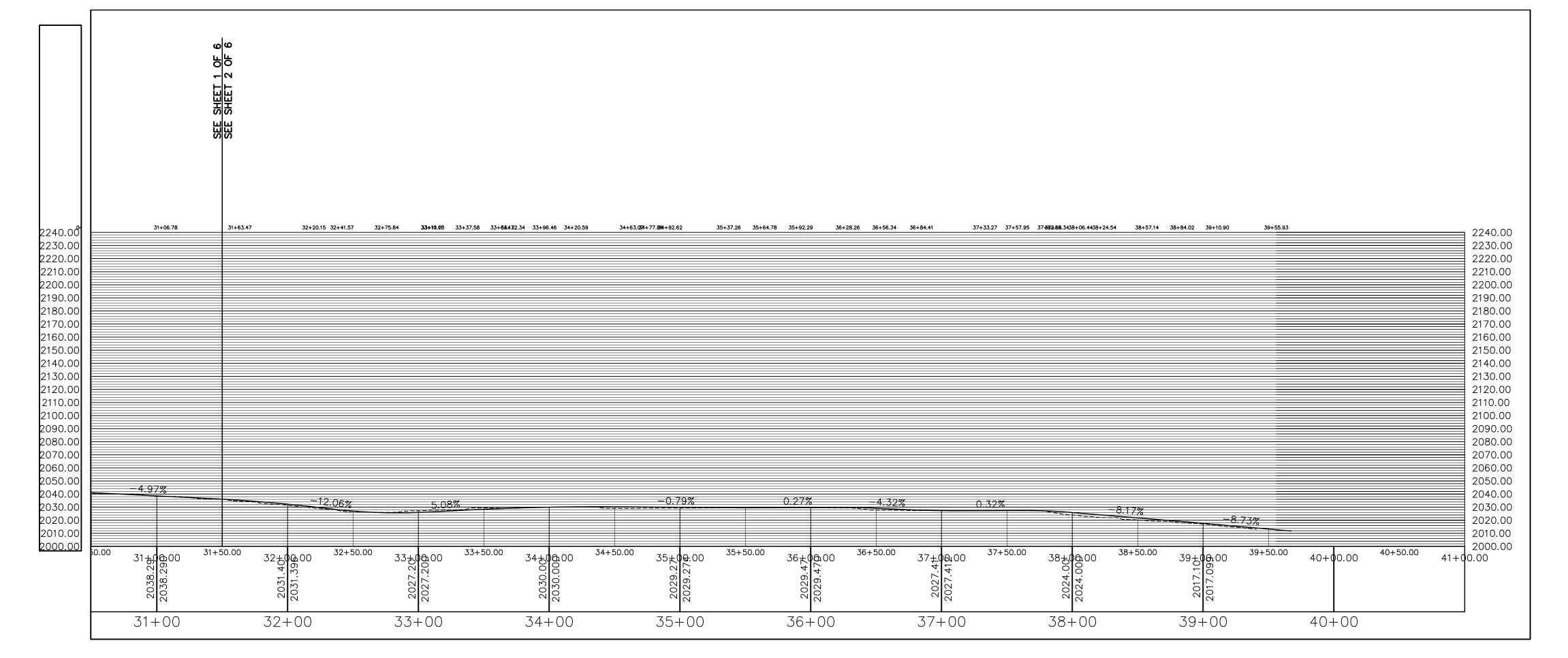
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PROJECT MGR: DWO
SHEET:

COVER



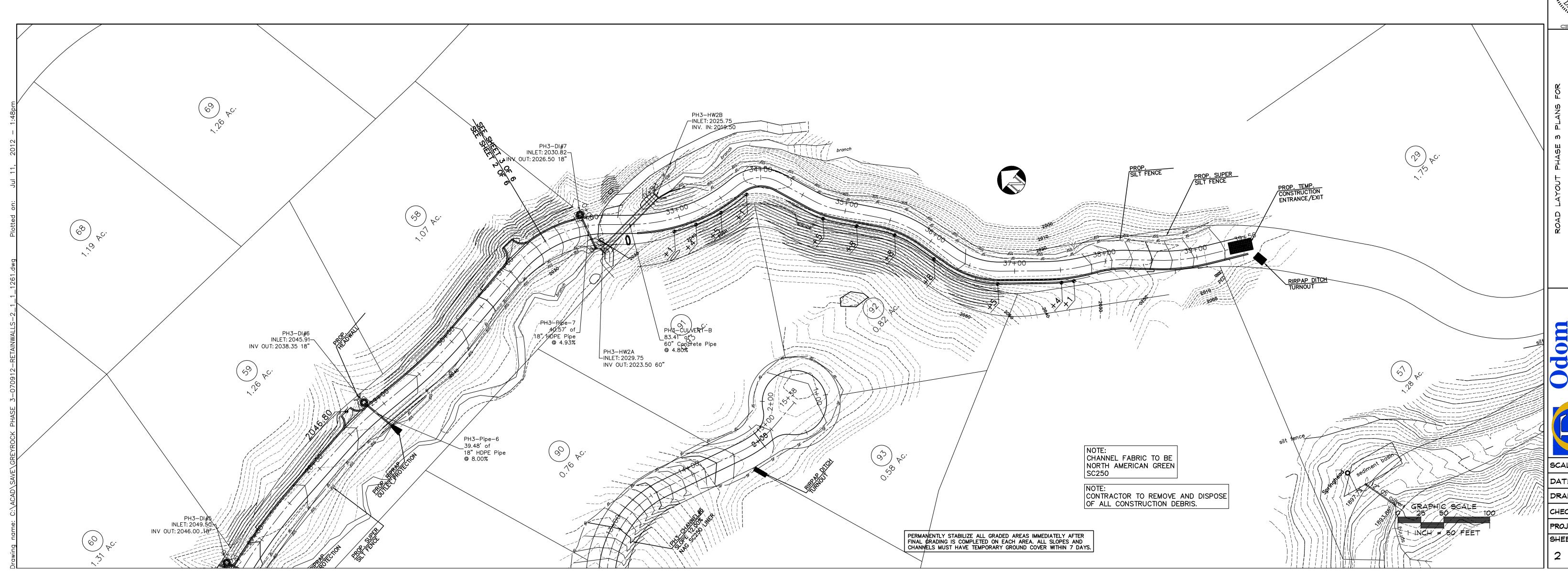






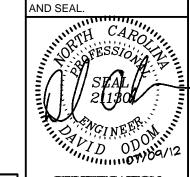
PARTIAL ROAD PROFILE

VERTICAL SCALE: 1" = 5'
HORIZONTAL SCALE: 1" = 50'



JOB NUMBER:

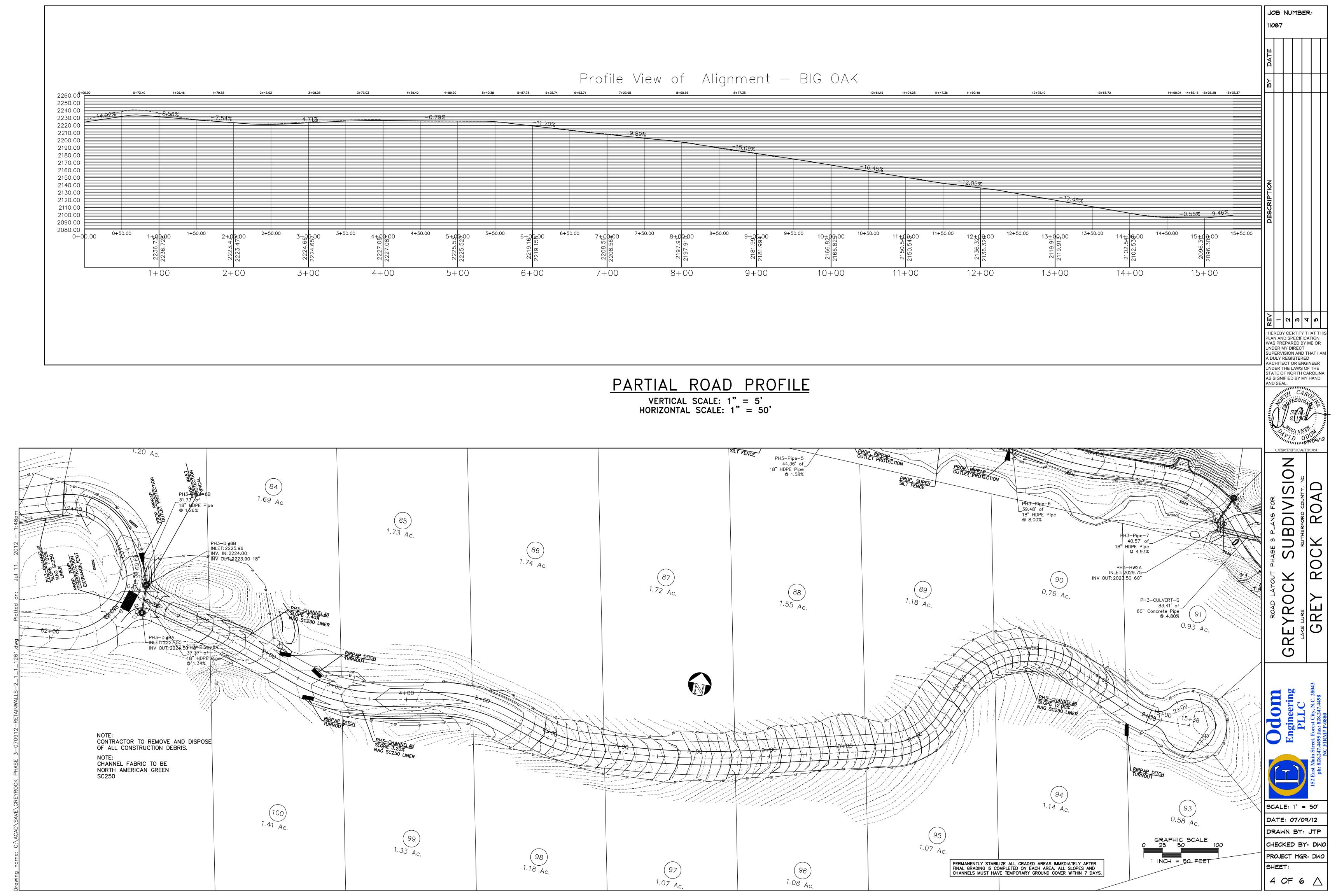
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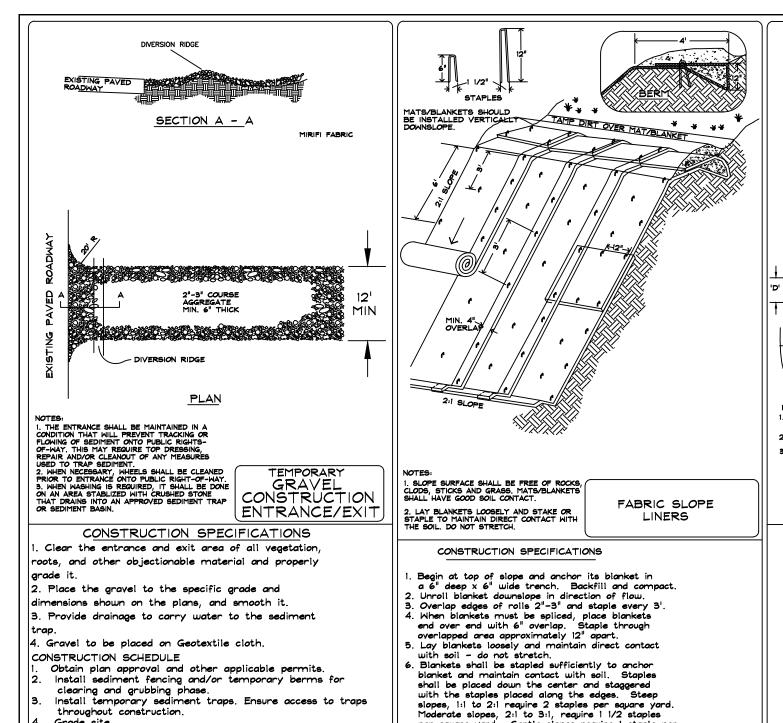


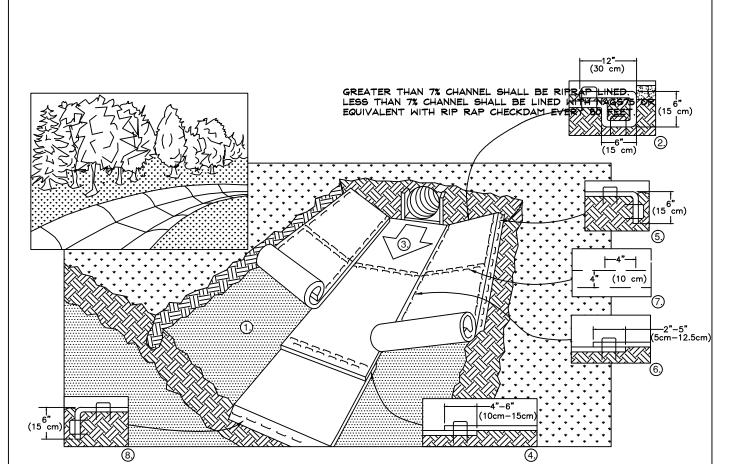


SCALE: 1" = 50' DATE: 07/09/12 DRAWN BY: JTP

CHECKED BY: DWO PROJECT MGR: DWO





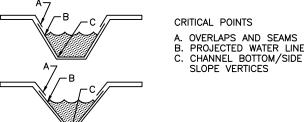


PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN. 2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP—SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30cm) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30cm) APART ACROSS THE WIDTH OF THE BLANKET.

3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW IN BOTTOM OF CHANNEL. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING OPTIONAL DOT SYSTEM™, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.

4. PLACE CONSECUTIVE BLANKETS END OVER END (SHINGLE STYLE) WITH A 4"-6" (10cm-15cm) OVERLAP. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER TO SECURE BLANKETS. 5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. 6. ADJACENT BLANKETS MUST BE OVERLAPPED APPROXIMATELY 2"-5" (5cm-12.5cm) (DEPENDING ON BLANKET TYPE) AND STAPLED. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE COLORED SEAM STITCH™ON THE BLANKET BEING OVERLAPPED.

7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT (9m-12m) INTERVALS. USE A DOUBLE ROW OF STAPLES STAGGERED 4" (10cm) APART AND 4" (10cm) ON CENTER OVER ENTIRE WIDTH OF THE CHANNEL. 8. THE TERMINAL END OF THE BLANKETS MUST BE ANCHORED WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30cm) APART IN A 6" (15cm) DEEP X 6" (15cm) WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.



Grade site.

calendar days.

Slopes shall have ground cover established within 21

completion of construction or development.

with vigorous and dense vegetative cover. Estimated time to final stabilization 4 mos.

Install permanent vegetation on all disturbed areas within

Remove temporary measures only after site is stabilized

. In fill situations contractor shall install a temporary berm

above slope to divert any potential runoff that may occur overnight in lieu of inclimate weather.

15 working days or no more than 60 calendar days following

* HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE. ** IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 cm) MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS.

per square yard. Gentle slopes require 1 staple per

ONLY DISTURB CLEAR OR GRADE AREAS NECESSARY FOR CONSTRUCTION FLAG OR OTHERWISE DELINEATE AREAS NOT TO BE DISTURBED. EXCLUDE

VEHICLES AND CONSTRUCTION EQUIPMENT FROM THESE AREAS TO PRESERVE NATURAL VEGETATION. CLEAR AND GRUB AREAS TO BE FILLED TO REMOVE TREES, VEGETATION,

MUCK, ROOTS, OR OTHER OBJECTIONABLE MATERIAL THAT WOULD AFFECT THE PLANTED STABILITY OF THE FILL. 3. PLACE FILL IN LAYERS NOT TO EXCEED 6" IN THICKNESS AND COMPACT THE LAYERS AS REQUIRED TO TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, OR

OTHER RELATED PROBLEMS. KEEP DIVERSIONS AND CHANNELS AND OTHER WATER CONVEYANCE MEASURES FREE OF SEDIMENT AT ALL TIMES. ROUGHEN THE SURFACE OF ALL SLOPES DURING THE CONSTRUCTION OPERATION TO RETAIN WATER, INCREASE INFILTRATION, AND FACILITATE VEGETATION

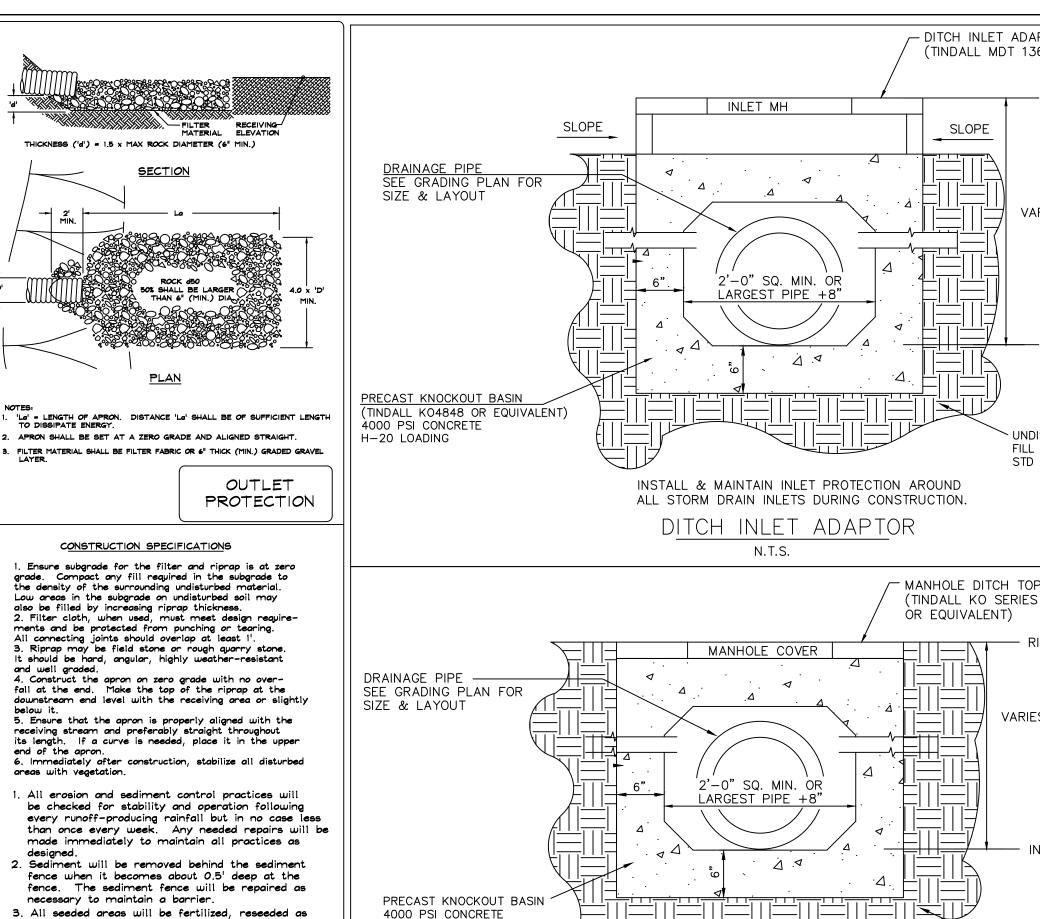
ESTABLISHMENT. PERMANENTLY STABILIZE ALL GRADED AREAS IMMEDIATELY AFTER FINAL GRADING IS COMPLETED ON EACH AREA. 2:1 OR STEEPER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 7 DAYS. 3:1 SLOPES OR FLATTER SLOPES MUST HAVE TEMPORARY GROUND COVER WITHIN 14 DAYS

MAINTENANCE PLAN All erosion and sediment control practices will be checked for stability and operation following every runoff—producing rainfall but in no case less made immediately to maintain all practices as Sediment will be removed behind the sediment fence when it becomes about 0.5' deep at the fence. The sediment fence will be repaired as necessary to maintain a barrier. Ensure temporary sediment trap is cleared once sediment reaches cleanout mark. 4. All seeded areas will be fertilized, reseeded as

necessary according to specifications in the vegetative plan to maintain a vigorous, dense,

vegetative cover.

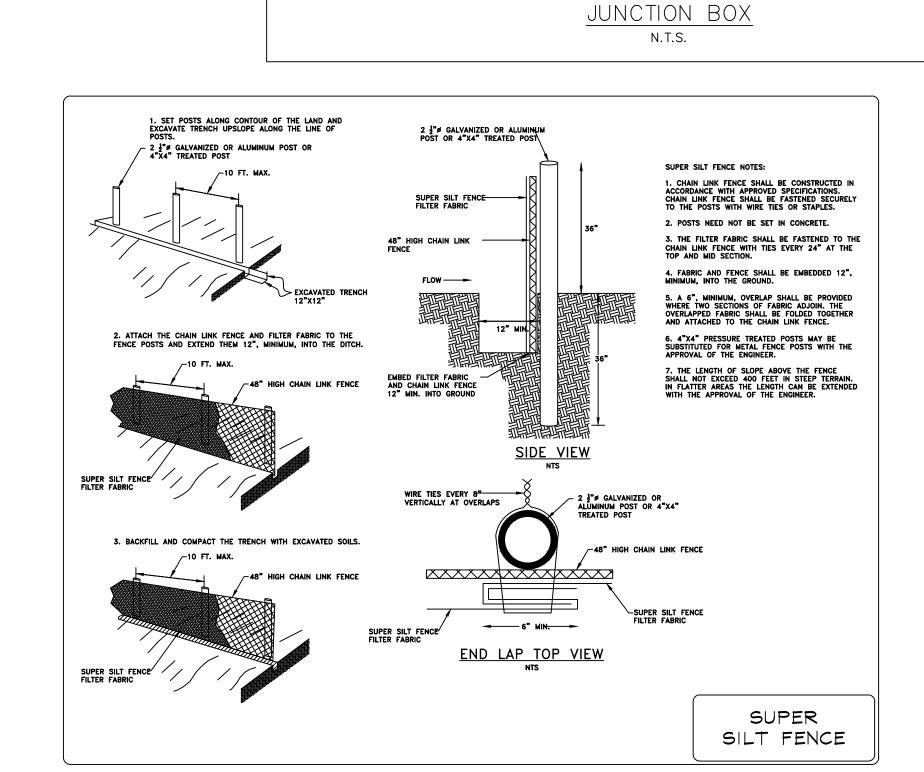
TURN OUT DITCH

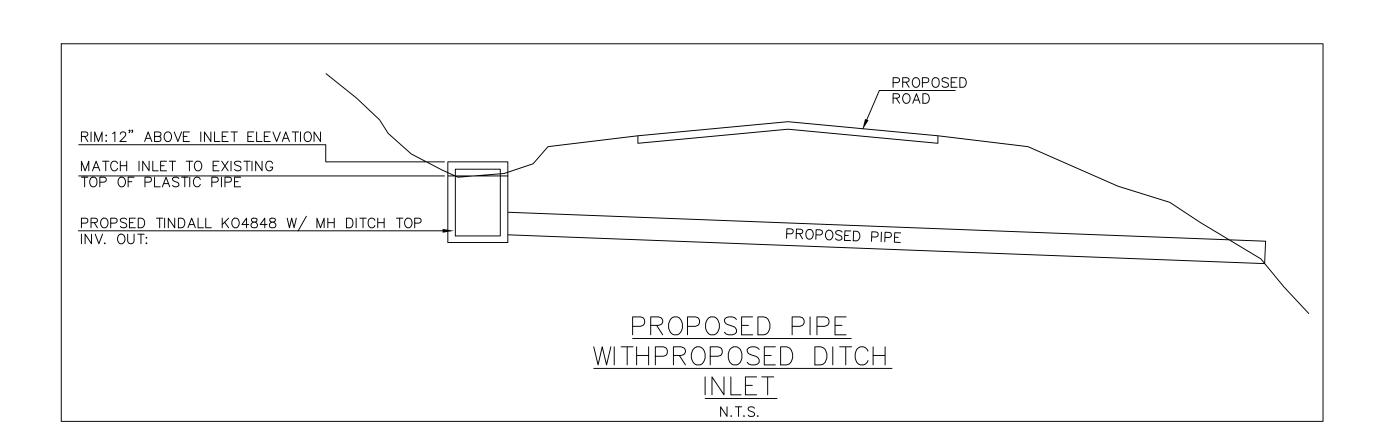


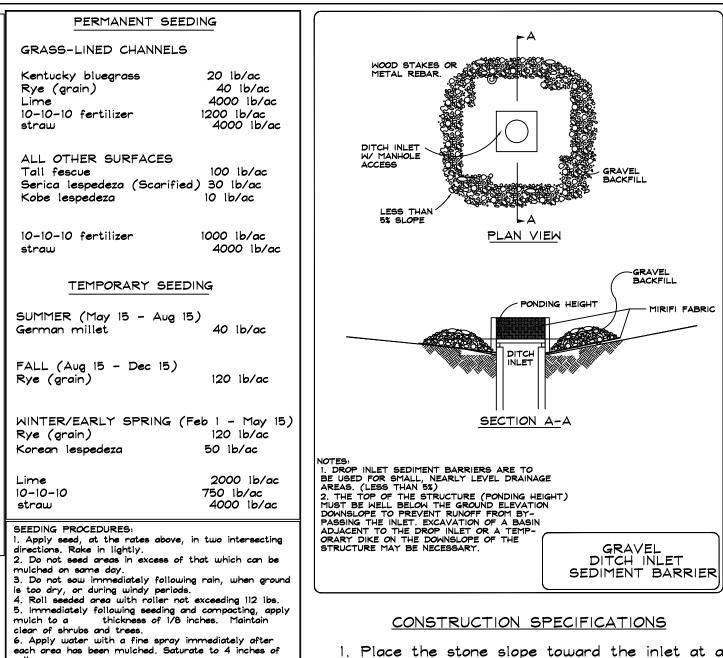
H-20 LOADING

necessary according to specifications in the veg-

etative plan to maintain a vigorous, dense,







(TINDALL MDT 1365# OR EQUIVALEN]

VARIES

SLOPE

— RIM ELEVATION

INVERT ELEVATION

UNDISTURBED EARTH OR

FILL COMPACTED TO 95%

STD PROCTOR

- RIM ELEVATION

INVERT ELEVATION

UNDISTURBED EARTH OR

FILL COMPACTED TO 95%

STD PROCTOR

INSTALL & MAINTAIN INLET PROTECTION AROUND ALL STORM DRAIN INLETS DURING CONSTRUCTION **VARIES**

SEED PROTECTION:

1. Identify seeded areas with stakes and string around

area periphery. Set string height to 6 inches.

2. Cover seeded slopes where grade is 4 inches per foot or greater with erosion fabric. Roll fabric onto

slopes without stretching or pulling.

3. Lay fabric smoothly on surface, bury top end of each section in 6 inch deep excavated topsoil trench. Provide 12 inch overlap of adjacent rolls. Backfill

trench and rake smooth, level with adjacent soil 4. Secure outside edges and overlaps at 36 inch

intervals with stakes.
5. Lightly dress slopes with topsoil to ensure close

contact between fabric and soil.

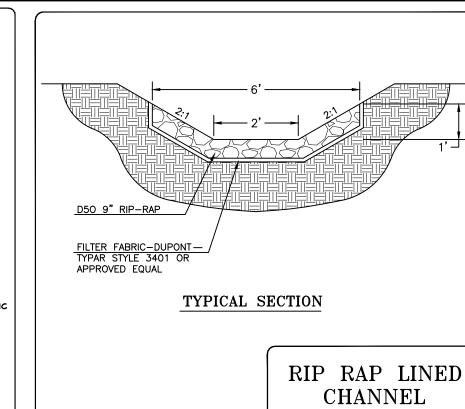
6. At sides of ditches, lay fabric laps in direction of water flow. Lap ends and edges minimum 6 inches.

Place the stone slope toward the inlet at a 3:1 or flatter slope. A minimum 1 foot wide level area set 4 inches below the drop inlet crest will add further protection against the entrance of material

2. Stone on the slope toward the inlet should be 3 inches or larger for stability, and 1 inch or smaller on the slope away from the inlet to control flow rate.

3. Wire mesh with 2 inch openings may be placed over the drain grating, but must be inspected frequently to avoid blockage by trash.

PRECAST CONCRETE HEADWALL



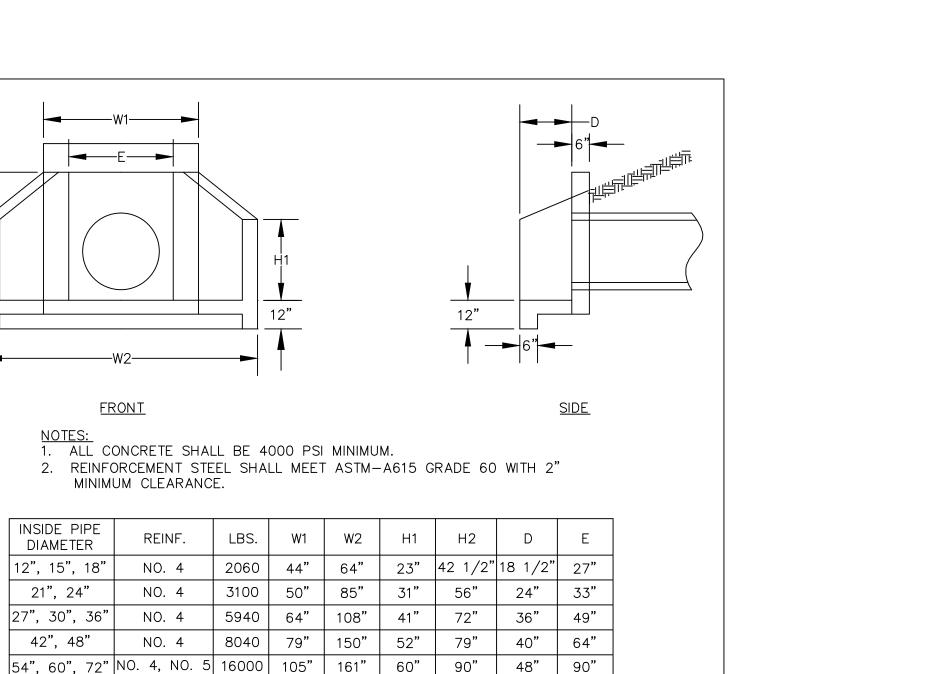
CONSTRUCTION SPECIFICATIONS . Excavate cross section to grades shown on plans. Overcut for thickness of rock and filter. 2. Place filter fabric or gravel filter layer, and rock as soon as the foundation is prepared.

3. Place rock so it forms a dense, uniform, well-graded

necessary to obtain good size distribution. 4. No overfall of channel construction should exist. Grass lined channels with riprap bottoms must have a smooth contact between riprap and vegetation. 5. Outlet must be stable. 6. Use a foundation of extra strength filter fabric

mass with few voids. Hand placement may be

or and aggregate filter layer.



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ARCHITECT OR ENGINEER

UNDER THE LAWS OF THE

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AS SIGNIFIED BY MY HAND

UNDER MY DIRECT

ND SEAL.

A DULY REGISTERED

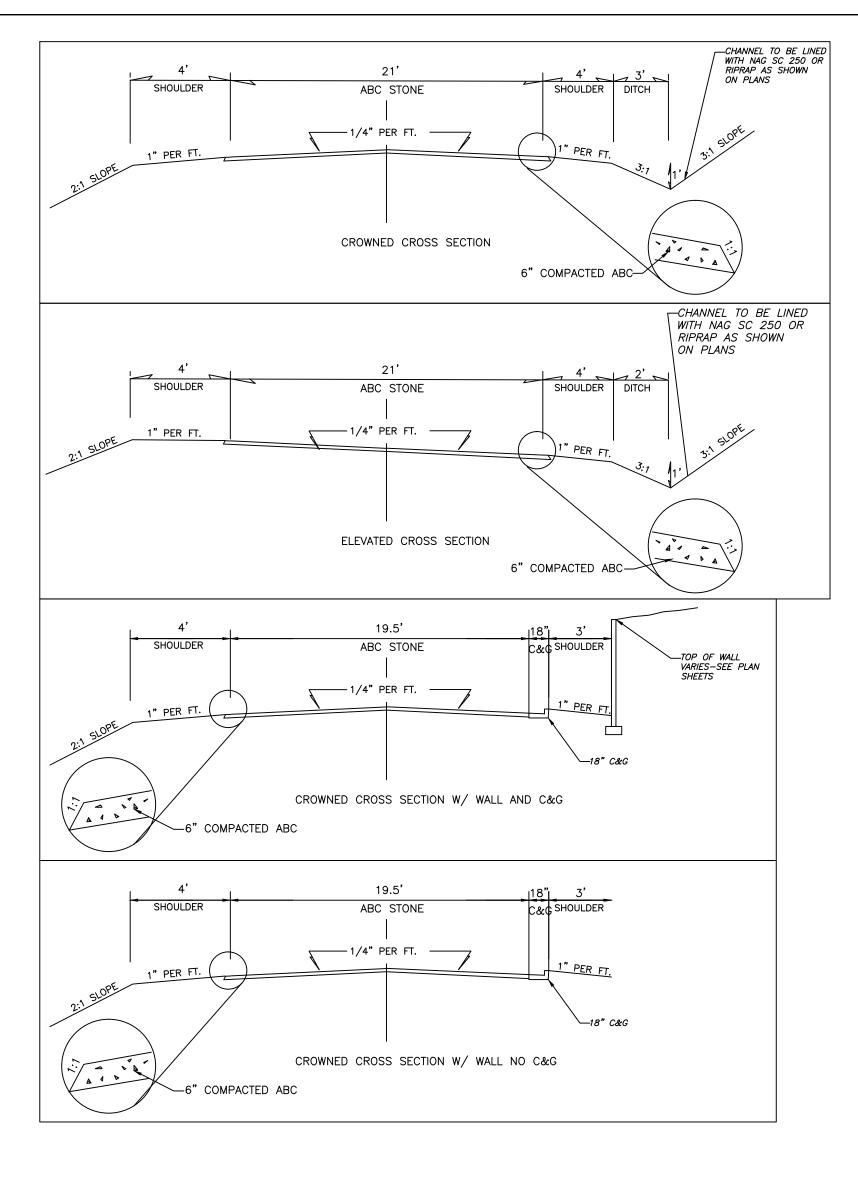
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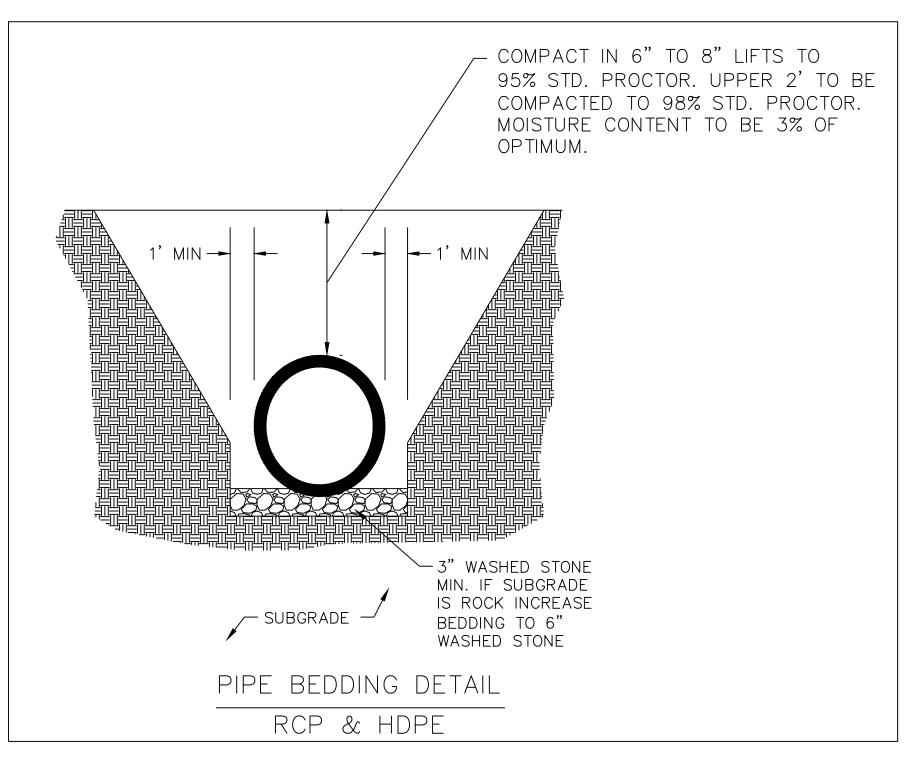
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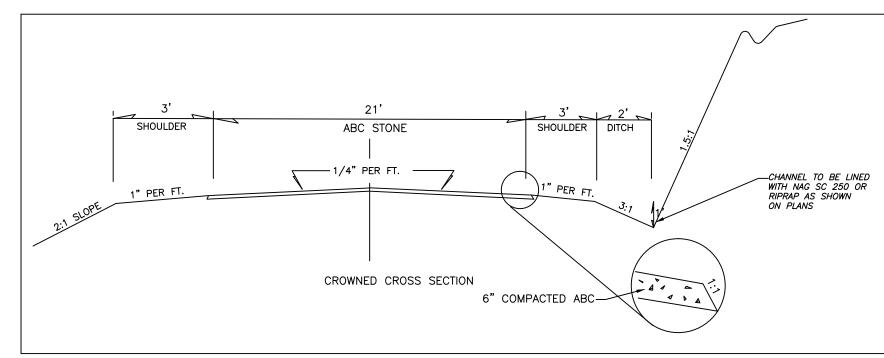
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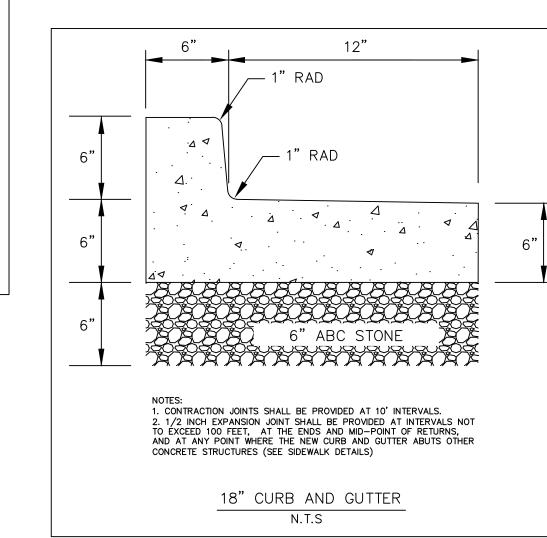
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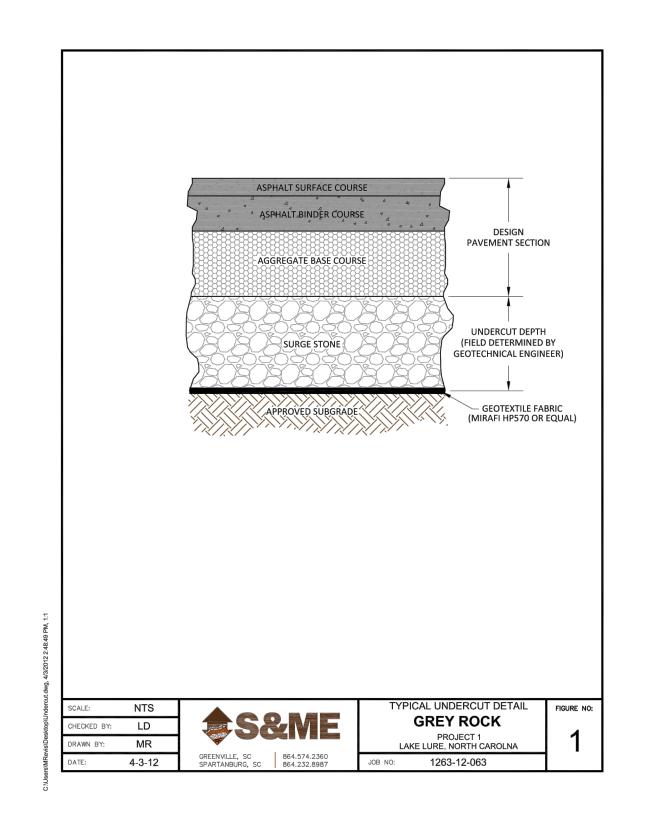
5 OF 6 △

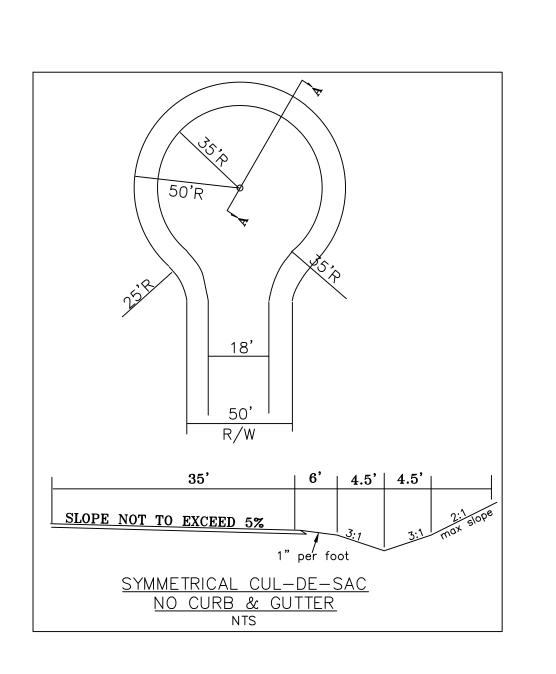


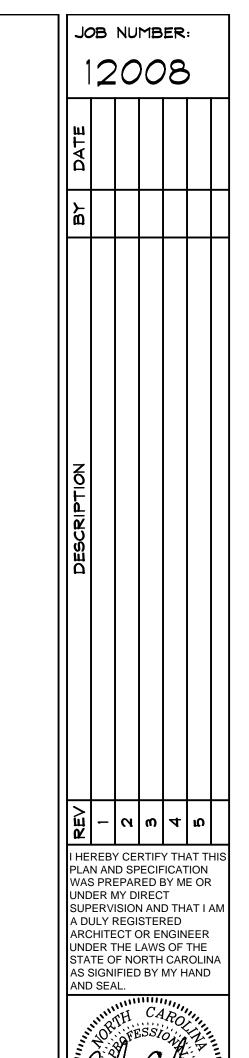












<u>O</u> § SUBDIVIS

RUTHERFORD COUNT

DETAILS YROCK ECP GRE,



SCALE: N.T.S.

DATE: 07/09/12 DRAWN BY: JTP

CHECKED BY: DWO PROJECT MGR: DWO

SHEET: 5 OF 6 △